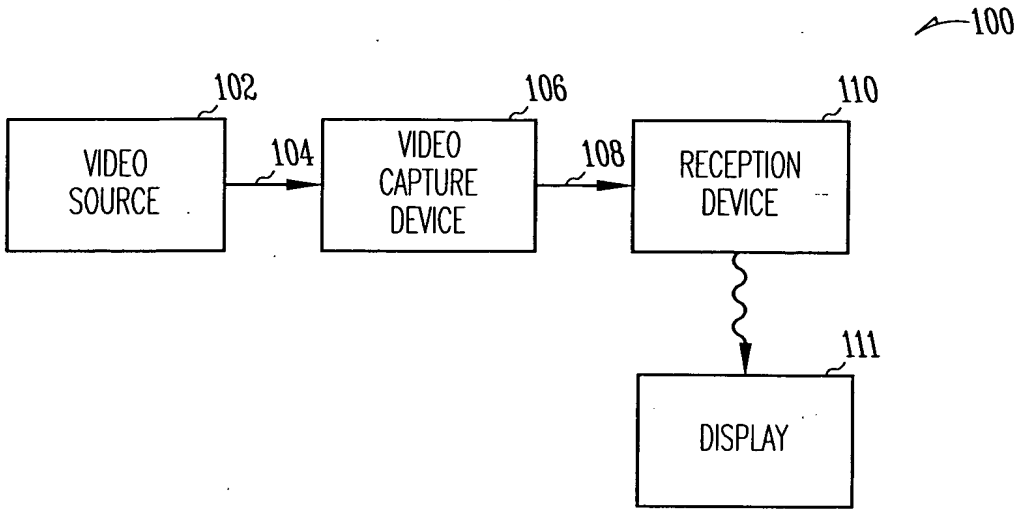

Fig. 1

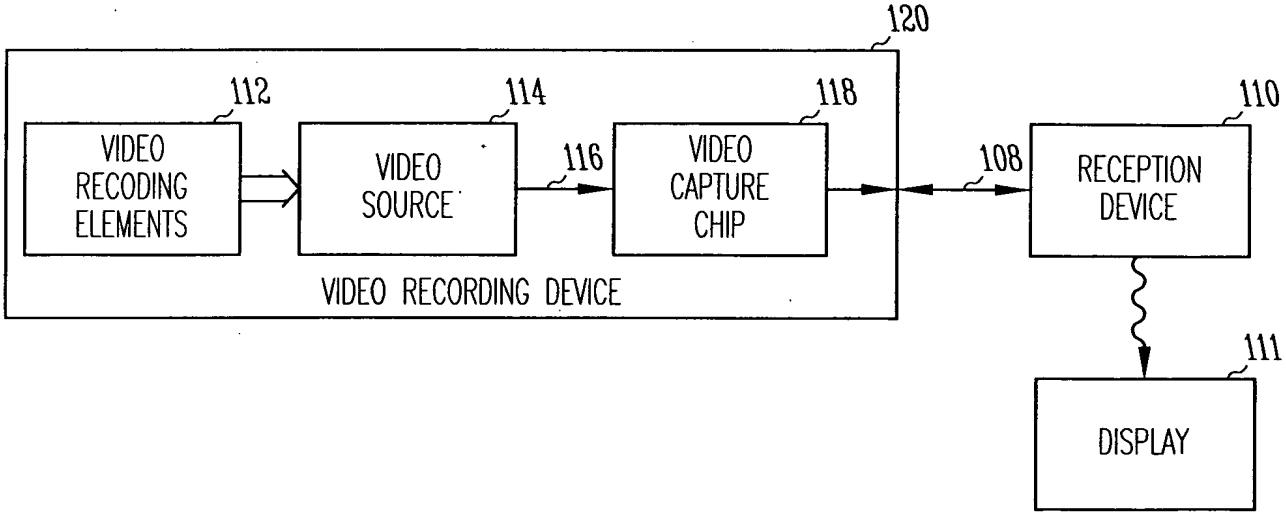

Fig. 2

Express Mail Label No. EV 045951569 US

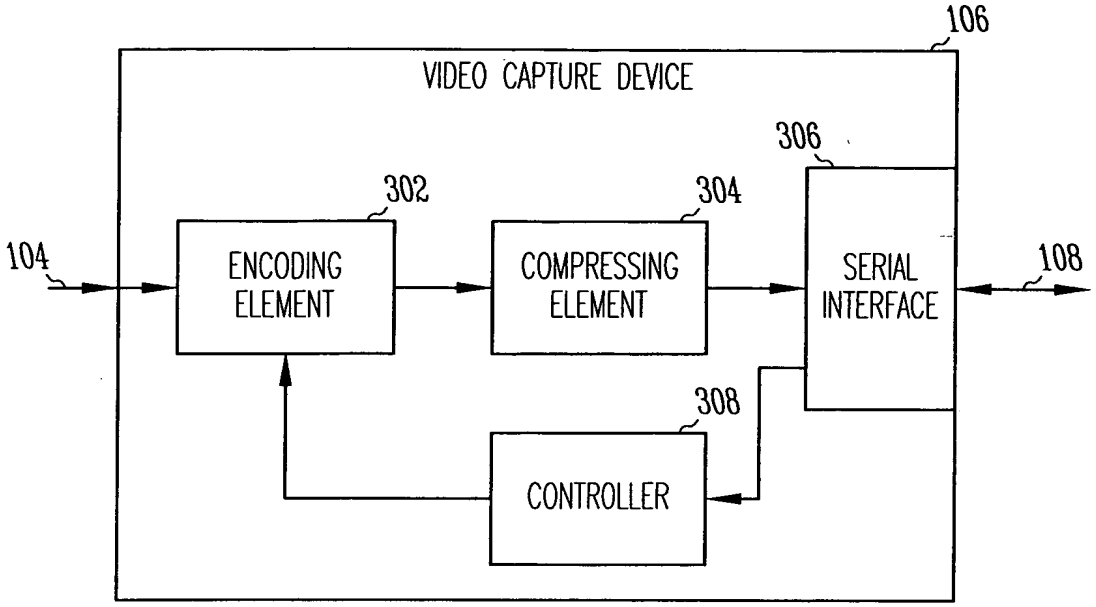

Fig. 3

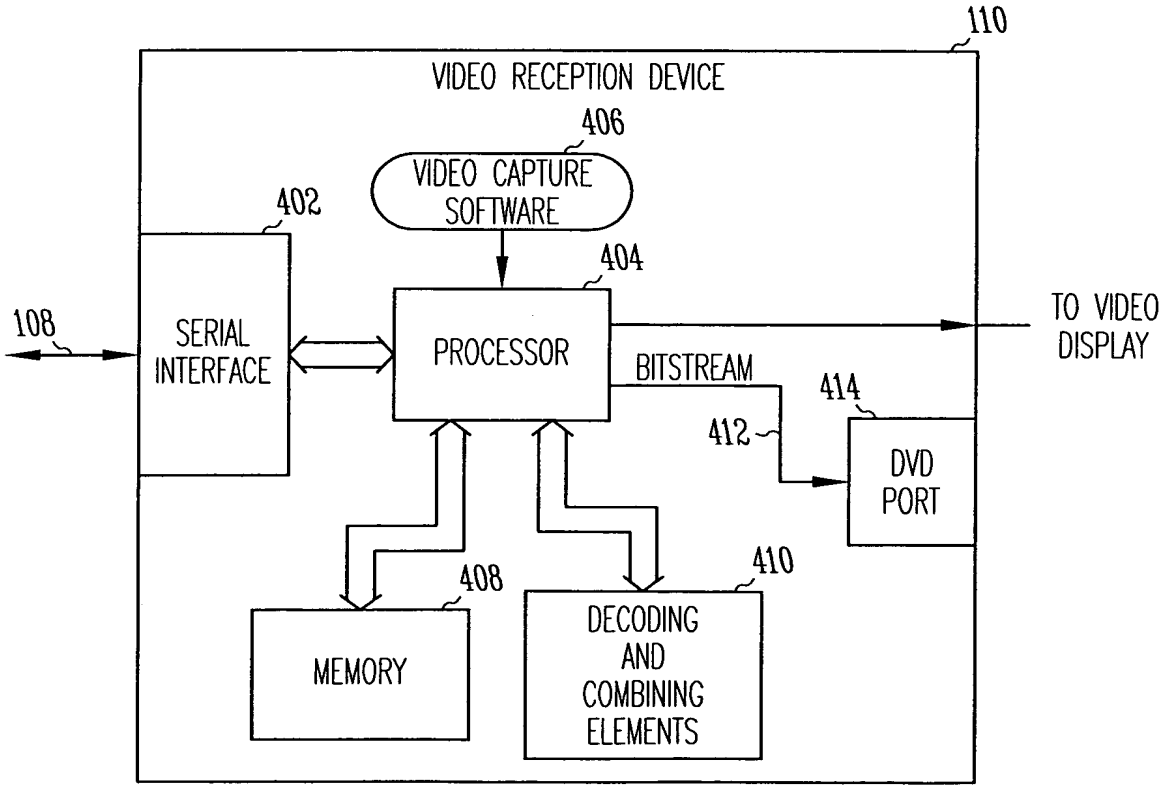

Fig. 4

Tuesday, May 04, 2004 10:56:50 AM

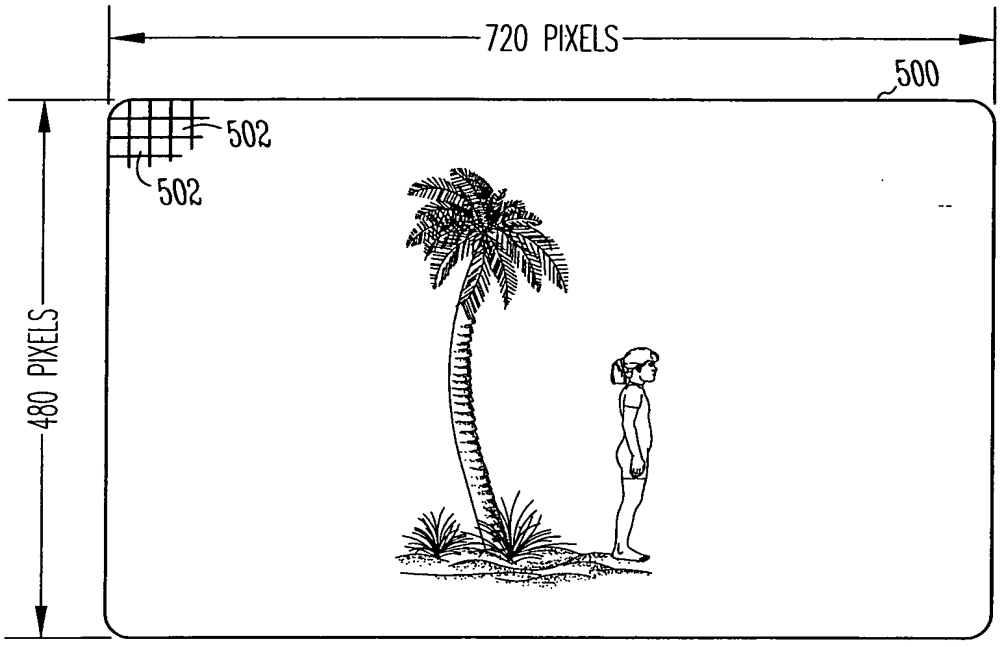

Fig. 5

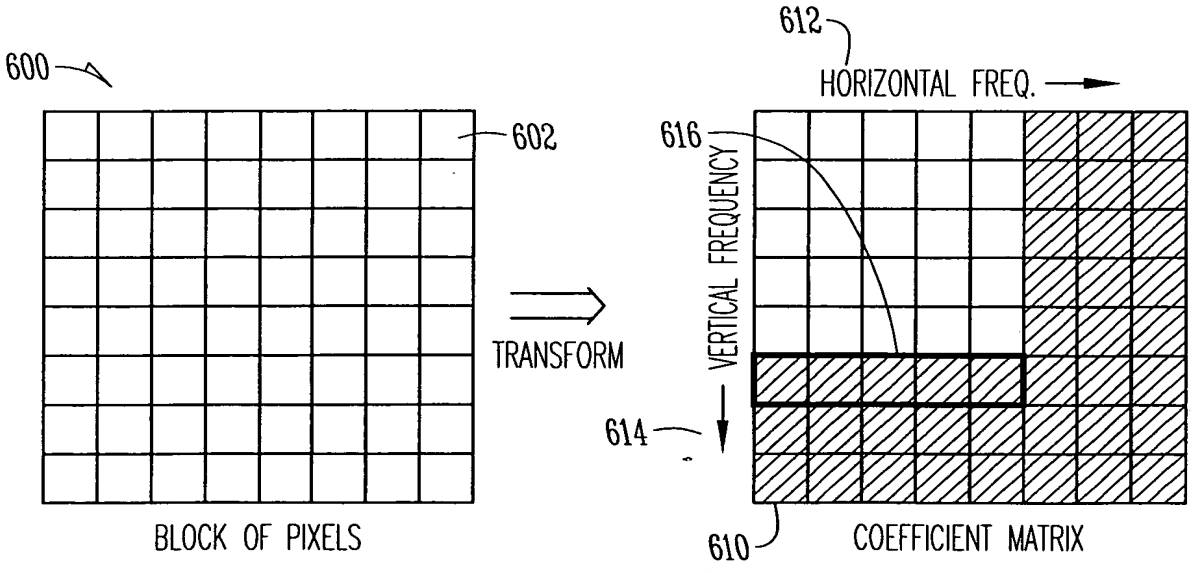

Fig. 6A

Fig. 6B

T0/2260 T6h5956O

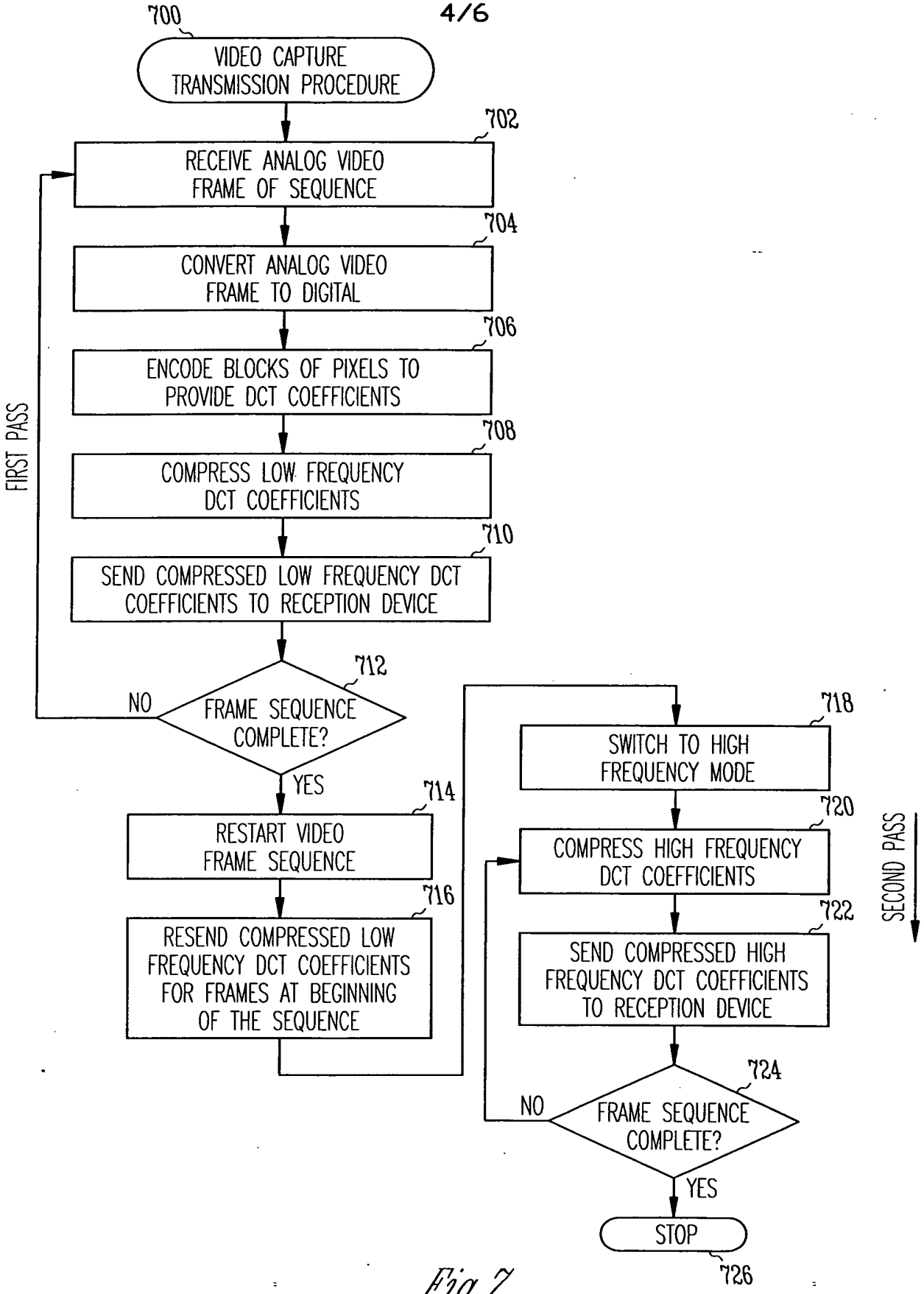
700
VIDEO CAPTURE TRANSMISSION PROCEDURE
702
RECEIVE ANALOG VIDEO FRAME OF SEQUENCE
704
CONVERT ANALOG VIDEO FRAME TO DIGITAL
706
ENCODE BLOCKS OF PIXELS TO PROVIDE DCT COEFFICIENTS
708
COMPRESS LOW FREQUENCY DCT COEFFICIENTS
710
SEND COMPRESSED LOW FREQUENCY DCT COEFFICIENTS TO RECEPTION DEVICE
712
FRAME SEQUENCE COMPLETE?
NO
YES
FIRST PASS
714
RESTART VIDEO FRAME SEQUENCE
716
RESEND COMPRESSED LOW FREQUENCY DCT COEFFICIENTS FOR FRAMES AT BEGINNING OF THE SEQUENCE
718
SWITCH TO HIGH FREQUENCY MODE
720
COMPRESS HIGH FREQUENCY DCT COEFFICIENTS
722
SEND COMPRESSED HIGH FREQUENCY DCT COEFFICIENTS TO RECEPTION DEVICE
724
FRAME SEQUENCE COMPLETE?
NO
YES
STOP
726
SECOND PASS

Fig. 7

TO7260 PCT/US96/05960

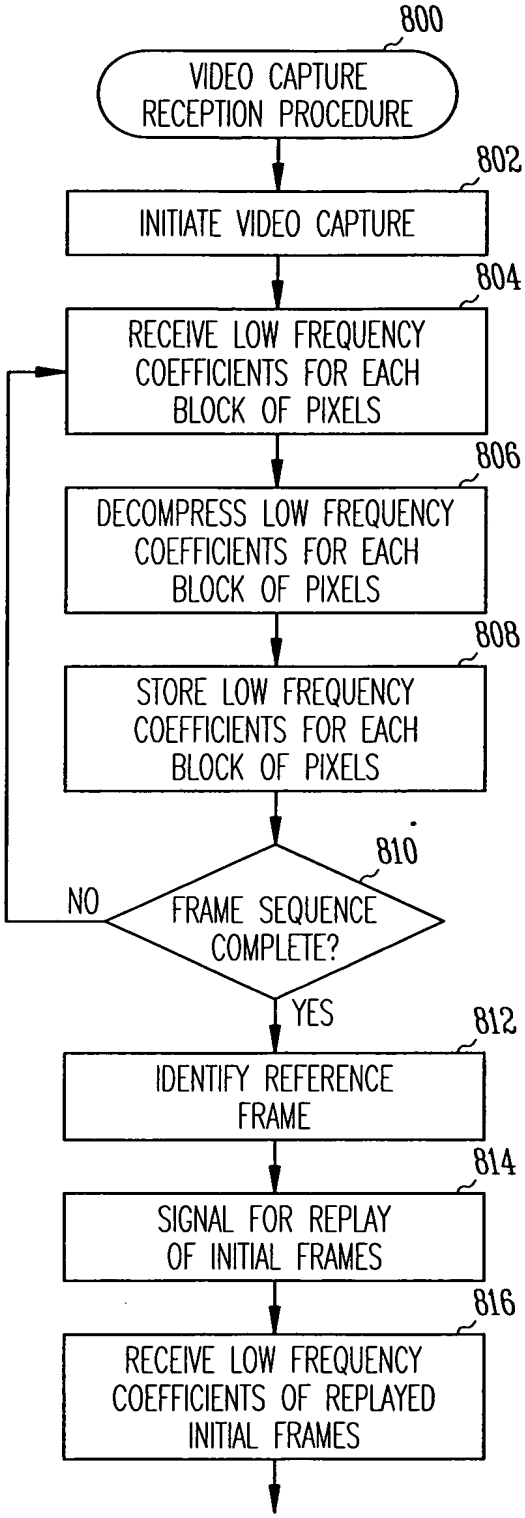

Fig. 8A

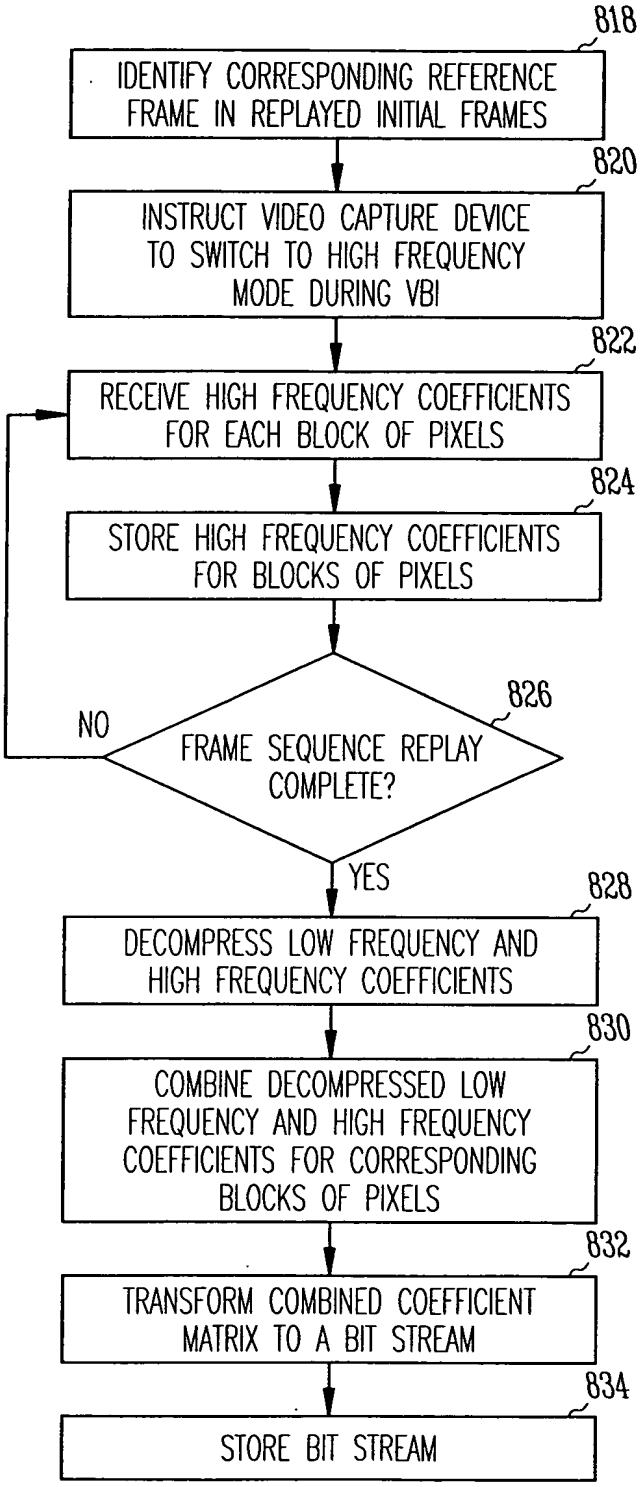
818
IDENTIFY CORRESPONDING REFERENCE FRAME IN REPLAYED INITIAL FRAMES
820
INSTRUCT VIDEO CAPTURE DEVICE TO SWITCH TO HIGH FREQUENCY MODE DURING VBI
822
RECEIVE HIGH FREQUENCY COEFFICIENTS FOR EACH BLOCK OF PIXELS
824
STORE HIGH FREQUENCY COEFFICIENTS FOR BLOCKS OF PIXELS
826
FRAME SEQUENCE REPLAY COMPLETE?
NO
YES
828
DECOMPRESS LOW FREQUENCY AND HIGH FREQUENCY COEFFICIENTS
830
COMBINE DECOMPRESSED LOW FREQUENCY AND HIGH FREQUENCY COEFFICIENTS FOR CORRESPONDING BLOCKS OF PIXELS
832
TRANSFORM COMBINED COEFFICIENT MATRIX TO A BIT STREAM
834
STORE BIT STREAM

Fig. 8B